

## MATHEMATICS N3 / INTRODUCTION TO ENGINEERING MATHEMATICS

### QUESTION 1

(14 MARKS)

1.1 Factorise the following expressions as far as possible in prime factors:

1.1.1  $x^2(p - q) + 3x(q - p) - 18(p - q)$  (4)

1.1.2  $5(x + 1)^2 - 17(x + 1) + 6$  (3)

1.2 Simplify the following algebraic fractions:

1.2.1  $\frac{rp^2 - rq^2}{p^2 - 2pq + q^2} \div \frac{rp^2 - rp + rpq - rq}{p^2 - pq - p + q}$  (4)

1.3 Prove that  $2x - 6$  is a factor of  $2x^3 - 6x^2 + 4x - 12$  (3)

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**Lingsheng Yao**



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## **Table of Contents N3 Mathematics 2012 Exemplars Memos**

1. Understanding the eBook N3 Mathematics 2012 Exemplars Memos
  - The Rise of Digital Reading N3 Mathematics 2012 Exemplars Memos
  - Advantages of eBooks Over Traditional Books
2. Identifying N3 Mathematics 2012 Exemplars Memos
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an N3 Mathematics 2012 Exemplars Memos
  - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Mathematics 2012 Exemplars Memos
  - Personalized Recommendations
  - N3 Mathematics 2012 Exemplars Memos User Reviews and Ratings
  - N3 Mathematics 2012 Exemplars Memos and Bestseller Lists
5. Accessing N3 Mathematics 2012 Exemplars Memos Free and Paid eBooks
  - N3 Mathematics 2012 Exemplars Memos Public Domain eBooks
  - N3 Mathematics 2012 Exemplars Memos eBook Subscription Services
  - N3 Mathematics 2012 Exemplars Memos Budget-Friendly Options
6. Navigating N3 Mathematics 2012 Exemplars Memos eBook Formats

- ePub, PDF, MOBI, and More
  - N3 Mathematics 2012 Exemplars Memos Compatibility with Devices
  - N3 Mathematics 2012 Exemplars Memos Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of N3 Mathematics 2012 Exemplars Memos
  - Highlighting and Note-Taking N3 Mathematics 2012 Exemplars Memos
  - Interactive Elements N3 Mathematics 2012 Exemplars Memos
8. Staying Engaged with N3 Mathematics 2012 Exemplars Memos
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers N3 Mathematics 2012 Exemplars Memos
9. Balancing eBooks and Physical Books N3 Mathematics 2012 Exemplars Memos
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection N3 Mathematics 2012 Exemplars Memos
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine N3 Mathematics 2012 Exemplars Memos
- Setting Reading Goals N3 Mathematics 2012 Exemplars Memos
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N3 Mathematics 2012 Exemplars Memos
- Fact-Checking eBook Content of N3 Mathematics 2012 Exemplars Memos
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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